Power Macintosh/Windows® 95 & 98/Windows NT® 4.0

Adobe® Photoshop® version 5.5

New Feature Highlights

The world-standard image-editing solution for print and the Web

Adobe Photoshop 5.5 software delivers the reach of the Web and the power of print in one complete image-editing solution. With Photoshop 5.5, you can design eye-catching images and then prepare them for Web distribution or for printed output with the same integrated ease. Instead of pulling together a hodge-podge of programs to support your Web graphics production, you can rely on a consistent world-class solution. Whether you're a creative professional who's passionate about print, a Web designer or producer who's devoted to the Web, or someone designing for both, Photoshop 5.5 provides the toolset you need to create brilliant results.

Photoshop 5.5 presents powerful new Web optimization features to help you create high-quality Web graphics with the smallest possible file sizes: you can, for example, compare an original image and several optimized versions as you apply compression settings in a LiveView window, manage colors, check browser dither, and more. With the LiveView window, you can achieve exactly the right balance between image quality and file size for all of your Web graphics. Photoshop even delivers an extraordinary new Lossy GIF feature, which lets you produce GIF files that are 10–50% smaller than previously possible with minimal loss of image quality.

Photoshop 5.5 includes the Adobe ImageReady™ 2.0 component for advanced Web-production tasks such as creating sliced images, sophisticated JavaScript rollovers, dynamic animations, and image maps. This component looks and behaves so much like Photoshop that you can jump between them easily. You can even undo steps performed in one program in the other, and you can preserve all of the layers and attributes in a file through successive round-trips between these programs.

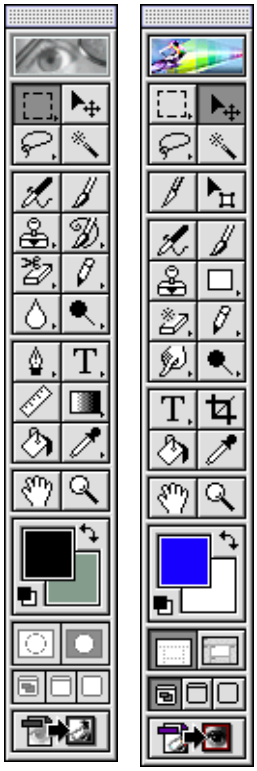
Photoshop 5.5 also fulfills customers' requests for several creativity features. You can work with new masking tools that are easier to use and that help you mask image areas with hard-to-define edges. A new art history brush lets you paint images with painterly strokes using source data from a specified history state or snapshot. Photoshop 5.5 even includes new contact sheet capabilities, so you can export a single image in multiple sizes as a picture package. You can also export multiple images on contact sheets or as a Web-based gallery. Together these new features extend the rich functionality that has long made Photoshop the tool of choice for anyone producing digital images.

This document introduces the powerful new Web functionality in Photoshop 5.5, as well as its new creative features. It illustrates all of the ways in which Photoshop continues to deliver the leading image-editing solution in the world.

Rely on Consistent Adobe Design Tools

One of the hallmarks of Adobe's professional graphics programs is the consistency in look and feel among these programs. Wherever possible, Adobe programs share similar commands, tools, palettes, and keyboard shortcuts, so you can instantly apply what you know about one program to another. Adobe Photoshop 5.5 continues this tradition, providing tight integration and a smooth workflow with its advanced Web production component, Adobe ImageReady 2.0. In addition, Photoshop 5.5 supports the new Portable Document Format (PDF) 1.3 standard introduced by Adobe Acrobat® 4.0. This section describes how this integration supports your Web- and print-based workflows.

Adobe



Photoshop ImageReady

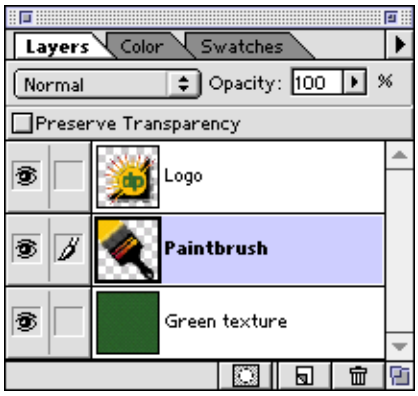
Work with common image-editing tools that behave the same way in both programs.

Adobe-Standard User Interface

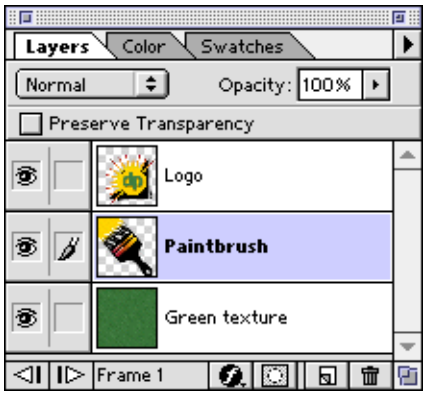
From the moment you insert the Photoshop 5.5 CD-ROM in your CD drive, you'll experience the consistency between Photoshop and ImageReady. For starters, you can install them at the same time in one efficient step. As you work in both programs, you'll notice numerous similarities. For example, ImageReady offers many of the same tools as Photoshop, including the pencil, paintbrush, eyedropper, rubber stamp, airbrush, line, dodge, burn, sponge, sharpen, blur, crop, and smudge tools. These tools work identically in both programs. Because they're available in both programs, you can work more flexibly, making image adjustments wherever you are in your Web workflow.

The History, Actions, and Layers palettes also look and behave similarly in both programs. For example, the History palette in each program helps you undo any number of steps. The Actions palette records a sequence of steps, such as the steps involved in color correcting or saving images in different file formats. You can then play actions to apply those steps to other images. The Layers palette displays the layers in an image, so you can select and apply attributes to specific layers. The Color, Swatches, Brushes, and other palettes also provide consistent functionality between Photoshop and ImageReady. ImageReady and Photoshop even offer similar commands, such as the Layer Effects, Levels, and Load Selection commands.

Note: While the Actions palettes perform identically in Photoshop and ImageReady, actions recorded in one program cannot be used in the other.



Palettes in Photoshop 5.5



Palettes in the ImageReady 2.0 component

The Layers palette provides an excellent example of the integration between Photoshop and ImageReady: this palette is virtually identical in each program. Differences appear only to support program-specific features, such as the animation features in ImageReady.

These similarities offer only a few examples of the built-in integration between Photoshop and ImageReady. The bottom line is this: if you're familiar with Photoshop, you can pick up ImageReady almost instantly. And if you're new to Photoshop, you can absorb both programs quickly, without encountering the puzzling—and production-stopping—inconsistencies of other Web-graphics "solutions."

Seamless Workflow for Web Graphics

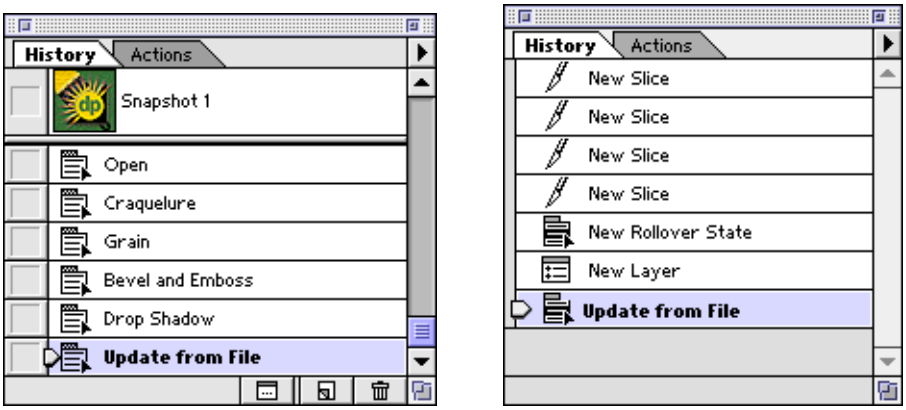
Photoshop 5.5 supports an efficient workflow with ImageReady. You can, for example, move files back and forth between the two programs numerous times without any data loss. Layers, layer effects, type, and other file attributes are all flawlessly preserved. Changes made in one program are even preserved as history states in the other program, so you can undo those steps easily.

Click the Jump-To buttons at the bottom of either the Photoshop or ImageReady toolboxes to switch to the other program and open the file you're working on.

In addition, you can jump from one program to the other instantly by clicking the Jump To icon on the toolbox in either Photoshop 5.5 or ImageReady 2.0. If the other program is running, the focus switches to that program instantly and the image you're preparing appears, so you can work with it. If the program isn't running, then Photoshop or ImageReady launches the other program and transfers the image to it for editing.

When you jump from one program to the other, the image stays open and active in both programs. You decide whether the changes you're making in the second program automatically update the image in the first program when you save, or whether you must manually update the image when you return to the first program. Each time you update the original image, those changes appear in a single history state in the History palette for that program. You can then undo changes easily after you return to the first program if you change your mind later about an edit you've made.

Let's look at an example of how this workflow supports you: imagine for a moment that you've created a layered illustration in Adobe Illustrator® software. You've then imported those layers into Photoshop and added numerous effects to different layers. Now you're creating an eye-catching animation with those layers in ImageReady. In the middle of this task, you realize you need to tweak an effect in Photoshop again. You simply click the Jump To button on the ImageReady toolbox to transfer the image (and all its layers and file attributes) back to Photoshop, adjust the effect, and update the change in ImageReady. Later, if you change your mind about the adjustment, you can undo the Photoshop changes in ImageReady by clicking the relevant history state in the History palette and starting again from that point.

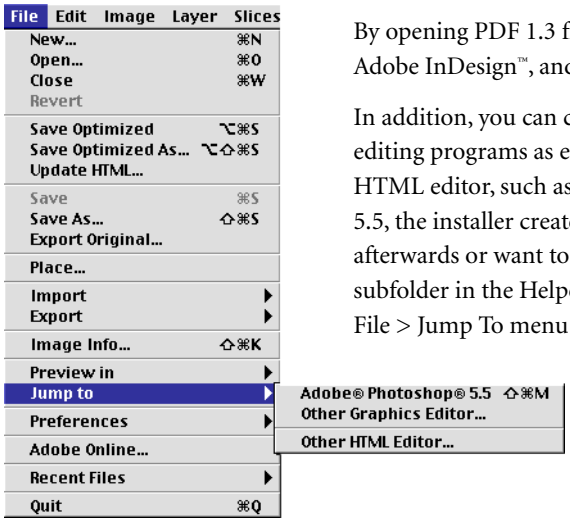


When you perform actions in one program, save your changes, and jump back to the other program, those changes appear as an AutoUpdate state on the History palette. You can then quickly undo those changes.

PDF 1.3 and Other Support

Photoshop 5.5 extends its long-standing support for other professional Adobe design programs by updating its PDF support—it now opens PDF files saved in the new PDF 1.3 standard introduced by Acrobat 4.0. PDF 1.3 files offer better support for:

- high-end print production
- the robust printing capabilities in Adobe PostScript 3™, including PostScript 3 Smooth Shading for the smoothest blends possible at any resolution
- color management and embedded ICC profiles
- font embedding and printing
- late-stage edits

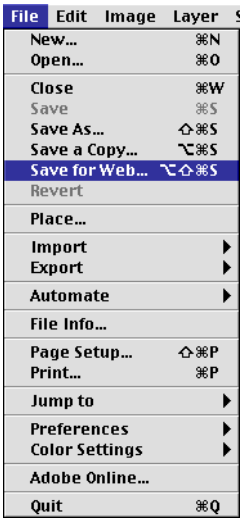


By opening PDF 1.3 files, Photoshop supports a PDF 1.3-based workflow that involves Adobe Illustrator, Adobe InDesign™, and other Adobe programs.

In addition, you can configure Photoshop and ImageReady to jump to Adobe Illustrator or other graphics editing programs as easily as they jump from one to the other. You can also set ImageReady to jump to an HTML editor, such as Adobe GoLive™ software. If these programs are installed when you install Photoshop 5.5, the installer creates the connection automatically. If you install an Adobe graphics editing program afterwards or want to link to a non-Adobe program, you simply add an alias or shortcut to the appropriate subfolder in the Helpers folder in the Adobe Photoshop 5.5 folder. The application then appears on the File > Jump To menu in both programs.

Produce Superb Web Graphics

For the last few years, as the demand for Web graphics has taken off, designers and Web producers have depended on Photoshop as one of the central tools in their Web design kit. Now Photoshop 5.5 is extending its Web role, adding important basic functionality that helps you optimize as well as create Web graphics. It's also providing all of the advanced tools necessary for creating interactive Web graphics, such as JavaScript rollovers, animations, and image maps. Photoshop 5.5 solves a key problem for Web-site designers today who currently lack integrated, comprehensive, production-oriented tools for designing and maintaining the look and feel of different sites with minimal time and effort. When you're creating all types of Web graphics, turn to Photoshop 5.5 for the powerful, flexible tools you need.



Basic Web Tasks: Creating the Smallest Possible Web Graphics

When you're preparing Web graphics for online viewing, you consider a number of factors that affect how these graphics will look. In particular, you must:

- Make tradeoffs between image quality and file size, so you get the best-looking graphics possible while maintaining optimal download and display times. Photoshop supports this process well—it even delivers higher levels of compression than previously possible with its unique Lossy GIF feature, which achieves 10–50% smaller GIF files with minimal loss of image quality.
- Ensure that graphics display well in different browsers. This step includes checking the effects of browser dither on 8-bit displays and comparing how screen brightness differences on Macintosh and Windows displays changes your image's look.

Photoshop 5.5 presents easy-to-use controls for all of these tasks in the Save For Web window (in Photoshop, choose File > Save for Web to view this window). All of the options available in the Save For Web window are also available in the ImageReady 2.0 component to ensure complete flexibility. This section describes what you can do with the built-in Web optimization controls in Photoshop 5.5.

LiveView panels with choice of 2-up or 4-up views

The best way to make tradeoffs in quality and file size is by comparing the original version of an image with the optimized versions on-screen, and then fine-tuning the compression settings applied. Photoshop streamlines this process by providing several ways to view your image. You can look at an original and optimized version side by side in 2-up view, or an original image along with three optimized variations in 4-up view. In this last view, the first optimized image uses the settings you've applied, while the other two optimized views show Photoshop-generated variations with different file sizes. No matter which viewing option you choose, you can see pertinent file details at a glance, such as the original file name and size, or the applied compression settings along with the file size and projected download speed at the selected modem rate. This interactive view makes it fast and fun to adjust optimization settings to enhance your image quality or reduce your file size.

4-up view in Photoshop 5.5

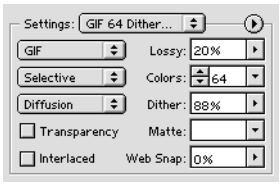
2-up view in ImageReady 2.0

Optimization controls

Photoshop 5.5 supports the GIF, JPEG, PNG-8, and PNG-24 optimization formats for reducing file sizes. You choose the optimization format that's appropriate for your image based on its colors and tonal range. In general, you'd use GIF and PNG-8 to compress images with flat color or sharp edges and crisp detail; JPEG to compress photographic images; and PNG-24 for photographs where you need to preserve variable levels of transparency. PNG-24 files are significantly larger than equivalent JPEG files, so you should use this format only when necessary. In fact, PNG files in general don't enjoy broad support from popular Web browsers.

Photoshop provides a selection of standard settings on a menu at the top of the optimization area, so you can instantly apply them. You can choose among preset GIF combinations using 32, 64, or 128 colors with or without dither; JPEG Low, Medium, or High settings; PNG-8 128 Dithered; and PNG-24. You can also add your own named combinations of settings to this menu.

Photoshop delivers a comprehensive selection of compression controls for GIF, JPEG, PNG-8, and PNG-24 optimization. The following table offers a quick overview of the key settings available.

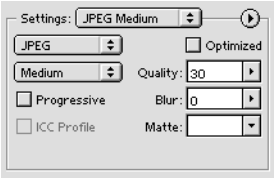


GIF compression options

Compression Settings in Photoshop 5.5

For GIF/PNG-8 Files	Description
The type of palette generated	**Adaptive** creates a custom palette optimized for the colors appearing most often in each image. **Perceptual** creates a custom palette for each image by favoring colors for which the human eye is sensitive. **Selective** creates a custom palette similar to a Perceptual palette but with more weight given to preserving Web colors and broad areas of color. **Web** applies a standard 216-color Web-safe palette. **Custom** lets you choose a palette you've saved. **Mac OS** and **Windows** loads the standard palette for those operating systems.
Dithering algorithm	You can select among several different dithering methods, including no dither, diffusion, and noise dithering, to control how colors are simulated using the applied Color palette.
Dither	This setting controls the dithering applied to reduce banding between solid colors in an image. A higher number simulates more colors and detail but typically produces larger file sizes.
Transparency	When this option is turned on, Photoshop maintains transparent pixels. When it's turned off, transparent areas are filled with the matte color.
Matte	This option specifies the color that fills transparent areas (when the Transparency option is turned off), or the color that blends with partially transparent edges (when Transparency is turned on). Using a matte color to blend with partially transparent edge pixels helps you avoid halo effects along the edges of transparent graphics.
Interlaced	This setting increases the file size slightly but allows the image to download in multiple passes for a better viewing experience.
Lossy (GIF only)	This unique setting controls the amount of lossiness allowed in GIF compression. It produces dramatically smaller file sizes—as much as 10–50% smaller files than previously possible—with minimal loss of image quality.
Colors	This setting determines the number of colors generated in the color table. You can choose standard settings, such as 2, 4, 8, 16, 32, 64, and 128, from a popup menu, or enter exact values. If your image contains fewer colors than the setting you specify, Photoshop automatically uses the smaller number to keep your file sizes trim.
Web Snap	This setting snaps colors to their Web equivalents based on the tolerance level you set. The higher the number, the more colors snap to a Web palette.

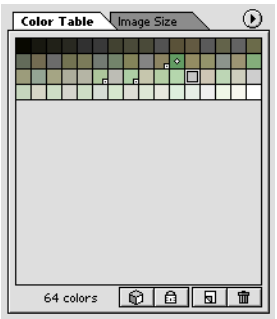
Compression Settings in Photoshop 5.5 *continued*



JPEG compression options

For JPEG Files	
Image Quality (Named)	You can select among Low, Medium, High, or Maximum depending on whether you require better image quality (with larger file sizes) or smaller file sizes (with lesser image quality).
Image Quality (Numerical)	This setting lets you fine-tune the balance between image quality and final file size. Specifying a number between 1 and 100 gives you more subtle control over the balance of quality and image size, particularly when refining lower-quality settings to achieve the smallest possible file sizes.
Progressive	This setting works like the GIF Interlaced option, allowing the JPEG file to download in multiple passes for a better viewing experience.
ICC Profile	This setting embeds an ICC profile (if available) based on the color management and compensation settings in Photoshop.
Optimized	This setting produces the smallest possible files but with some loss of compatibility.
Blur	This setting applies a blur to images to reduce the JPEG compression artifacts while reducing the file size.
Matte	This setting lets you control the color used to blend with transparent pixels. JPEG doesn't support transparency, so you should specify a matte color for Photoshop to use to blend with transparent areas. That way you can simulate transparency if you know the background color of your Web page.

Superior color controls for smaller file sizes



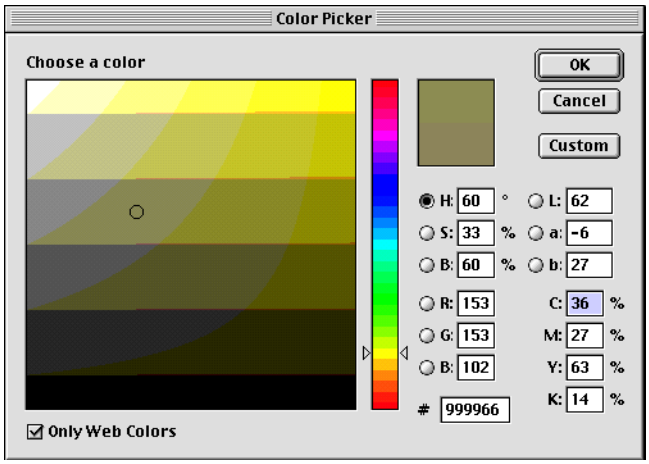
Manage colors using the Color Table in the Save For Web window.

One of the best ways to reduce GIF or PNG-8 file sizes while maintaining image quality is to minimize the number of colors saved with an image. The Color Table tab in the Save For Web window displays the colors associated with the 8-bit image you're optimizing. Using the controls available, you can add, delete, edit, or lock colors. Locking colors ensures that the color remains untouched as you eliminate other colors or shift them to Web-safe colors.

Photoshop provides options for quickly selecting all colors, all Web-safe colors, or all non-Web-safe colors, so you can perform efficient group actions. You can, for example, select a set of colors or all colors and then shift them automatically to Web-safe equivalents. You can also open a color picker from the Color Table tab by double-clicking any of the colors. Picking a new color edits the selected color in the Color Table tab. The color picker contains an option for displaying only Web-safe color values.

Photoshop provides color controls to help you preview how your 8-bit color images will display in different browsers and on different operating systems. To check the effects of browser dither, you can select the Browser Dither option from a popup menu, or you can set your computer display to 8-bit and then preview the optimized image in different Web browsers you specify in the Save For Web window.

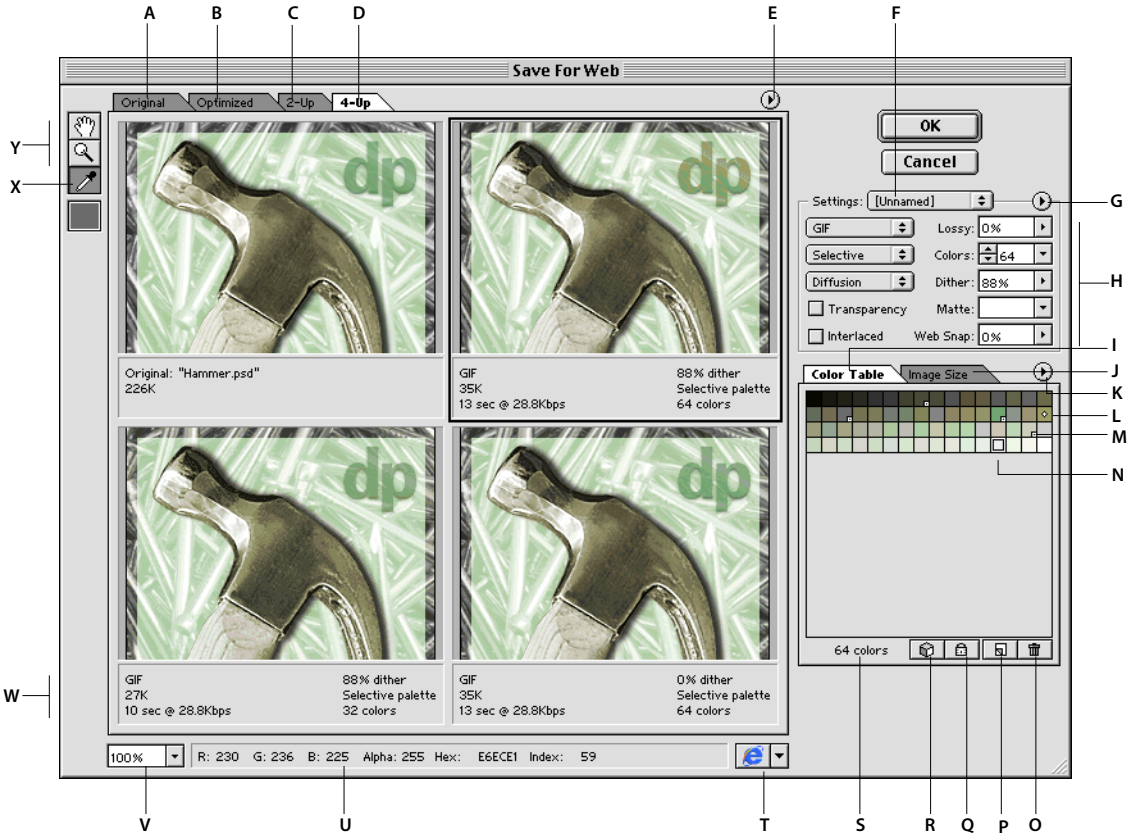
Check the Only Web Colors option in the Color Picker to limit your edit choices to Web-safe colors.



In addition, Mac OS and Windows systems use different gamma values to display graphics on-screen with the side effect that graphics look darker on Windows systems. Photoshop simulates the effect every time you activate the Standard Windows Color or Standard Macintosh Color commands on a popup menu, so you can easily keep an eye on how your graphics will look. Photoshop also displays RGB and Hexadecimal values for colors as your cursor rolls over them in the Color Table or in the LiveView panels.

View the RGB and hexadecimal values for colors as the cursor moves over them in the Save For Web window.

Overview of the Save for Web Window in Photoshop 5.5



A View the image with no optimization settings applied.
B View the image with the current optimization settings applied.
C View the original and optimized image side by side to see how your current optimization settings affect the display quality.
D View four versions of the image side by side: the original image, the image with the current optimization settings applied, and two variations on the current settings auto-generated by Photoshop to show you smaller file sizes.
E Display a popup menu with options for viewing browser dither, comparing the affects of Windows and Macintosh displays, trying different modem speeds, and more.
F Select named sets of optimization settings from this menu. Photoshop 5.5 includes a number of common sets for GIF, JPEG, PNG-8, and PNG-24 files. You can save more named sets with optimization settings that you use often.
G Display a popup menu with options for saving or deleting combinations of optimization settings; automatically adjusting settings to achieve a specific file size; and more.
H Set optimization options for GIF, JPEG, PNG-8, or PNG-24 files.
I Click to display the color table for the selected image (GIF and PNG-8 formats only).
J Click to set options that resize the image larger or smaller.
K Display a popup menu with comprehensive options for adding and deleting colors; selecting or deselecting colors based on properties such as whether they're Web-safe; locking or unlocking selected colors; shifting or unshifting all or selected colors to a Web palette; sorting colors based on characteristics; and loading or saving colors tables.
L Indicates a color that's been edited or shifted to a Web-safe equivalent.
M Indicates a locked color that can't be dropped as you perform other color editing tasks.
N Indicates a selected color. Double-click this color to open the color picker, which includes an option for displaying only Web-safe colors. Press and hold to temporarily invert and identify this color in the optimized image.
O Delete selected colors.
P Add the color you've selected with the eyedropper to the color table.
Q Lock selected colors so you cannot drop them as you edit your color table.
R Snap selected colors to their Web-safe equivalents.
S Indicates the number of colors in the color table.
T Select a Web browser in which to preview your image for browser dither and other artifacts.
U Displays the RGB and Hexadecimal readouts of colors as your cursor rolls over those colors in the color table or rolls over the images in the LiveView panels.
V Zoom in or out of the image using predefined zoom settings. The images are linked and always zoom to the same magnification level.
W Displays the applied optimization settings, file size, and estimated download time.
X Use the eyedropper tool to select colors in the original image. The selected color appears in the color swatch below the eyedropper.
Y Zoom and pan in the original or optimized images. The images are linked and always zoom and pan together.

Advanced Web Tasks: Designing Interactive Graphics

Production activities for most Web sites center around the preparation of still images for Web display. However, as more sites compete for viewers, they are exploring other types of graphics, such as JavaScript rollovers and simple animations, that will catch people's eyes and help draw visitors back to the site. What's more, browsers are evolving to better support these types of graphics, and bandwidth is expanding to provide a better viewing experience.

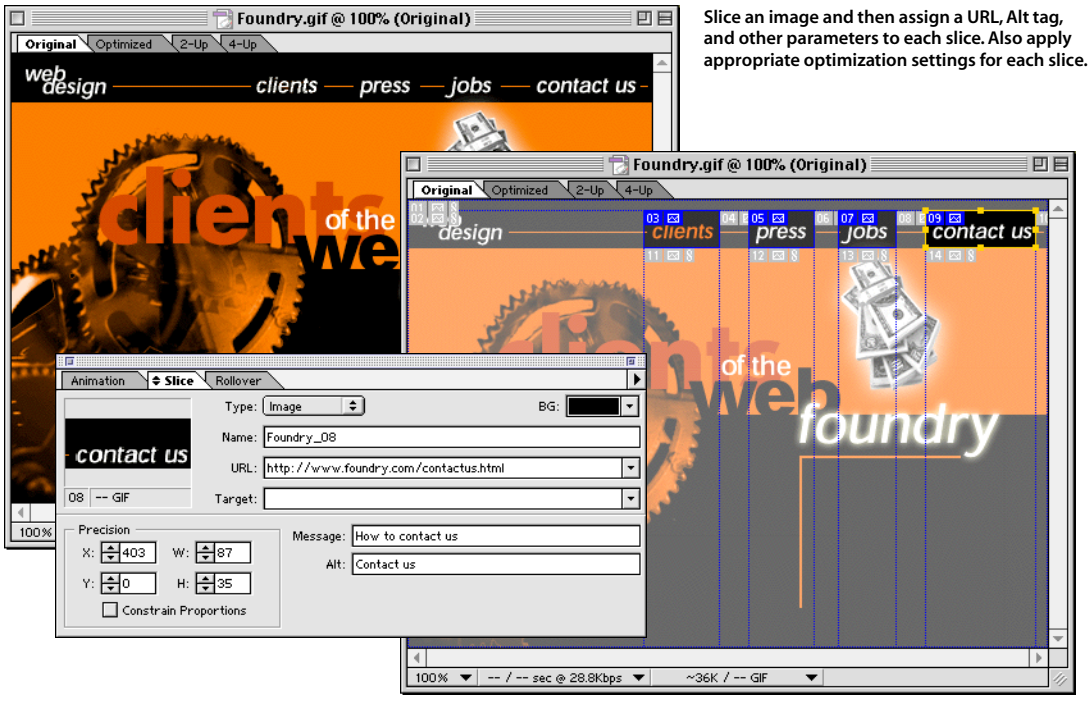
Photoshop 5.5 provides complete support for the creation and optimization of advanced Web graphics. With its ImageReady 2.0 component, you can produce the most sophisticated JavaScript rollover effects without writing a line of code. You can slice images and then optimize those slices selectively or create JavaScript rollover effects from them. You can then generate HTML pages automatically, including the HTML table code necessary to reassemble the sliced image. You can even update this table instantly if you make changes to the sliced image later. ImageReady also offers superb animation controls, and it supplements the creativity features in Photoshop with Styles and other additions that can enhance your Web-production activities.

Slicing tools for user-defined slices

Slicing images is the key to incorporating more complex images into your Web site. Sliced images give you more control over how you apply optimization options, and they allow you to create rollovers or set up animations in specific image areas. An image that combines layers of solid colors, text, and photographic images, for example, looks best with different optimization settings applied to different areas. With ImageReady, you have complete control over image slicing. You can:

Slice and select slice tools

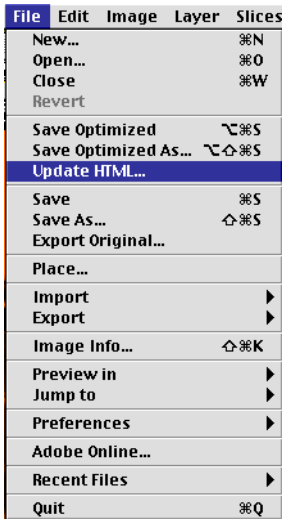
- Use the slice tool to create user-slices by simply dragging a rectangle over the image. ImageReady automatically defines auto-slices for the image, as necessary, to create the final HTML table.
- Arrange guides and then use the Create Slices From Guides command to generate image slices.
- Hide or show image slices.
- Select individual user-slices and apply different optimization settings to them. For example, you could apply JPEG settings to an image area and GIF settings to an area containing text and solid colors.
- Assign a file name to each slice, as well as a number of parameters such as a link to a URL, an Alt tag, or a JavaScript message. Links to URLs turn sliced images into navigation maps. Alt tags replace image slices in nongraphical browsers. The JavaScript message appears in the browser's status area. By default, it displays the assigned URL, but you can modify it to say anything you like.



Slice an image and then assign a URL, Alt tag, and other parameters to each slice. Also apply appropriate optimization settings for each slice.

- Specify whether a slice is an image slice or a non-image slice. Non-image slices contain solid colors or HTML text.
- Divide, merge, duplicate, resize, align, or delete slices. You can even arrange them in a stacking order.
- Link or unlink slices. When you link slices, applying optimization and other settings to one slice automatically updates the others. Linked slices share a dither pattern, so seamlines won't appear along the edges of these slices.
- View slice information, including the assigned number of each slice, slice lines, link symbols, and more. (***Note:*** ImageReady assigns every user-slice or auto-slice an identifying number starting in the upper-left corner of the image and working from left to right and from top to bottom. If you move an image slice, ImageReady automatically renumbers the slices.)
- Automatically generate a set of named files and an HTML file with the table code necessary to reassemble the image when you save the optimized file.
- Produce high-quality HTML code that you can copy immediately into an HTML editor. You control the formatting of this code, including indenting and whether tags are upper- or lowercase, so you can match the HTML coding standards for your Web site or for your clients.
- Control how ImageReady handles the image files—you can structure how ImageReady auto-names the files used, where it stores them, and more.

ImageReady provides a Slice palette that streamlines working with slices. It displays the optimized size and download time of each selected slice, so you can evaluate sliced images with the same ease as other images. One key thing to note is that slicing an image does not interfere with moving files back and forth to Photoshop. ImageReady simply embeds this Web-specific information in your PSD file.



Update HTML command

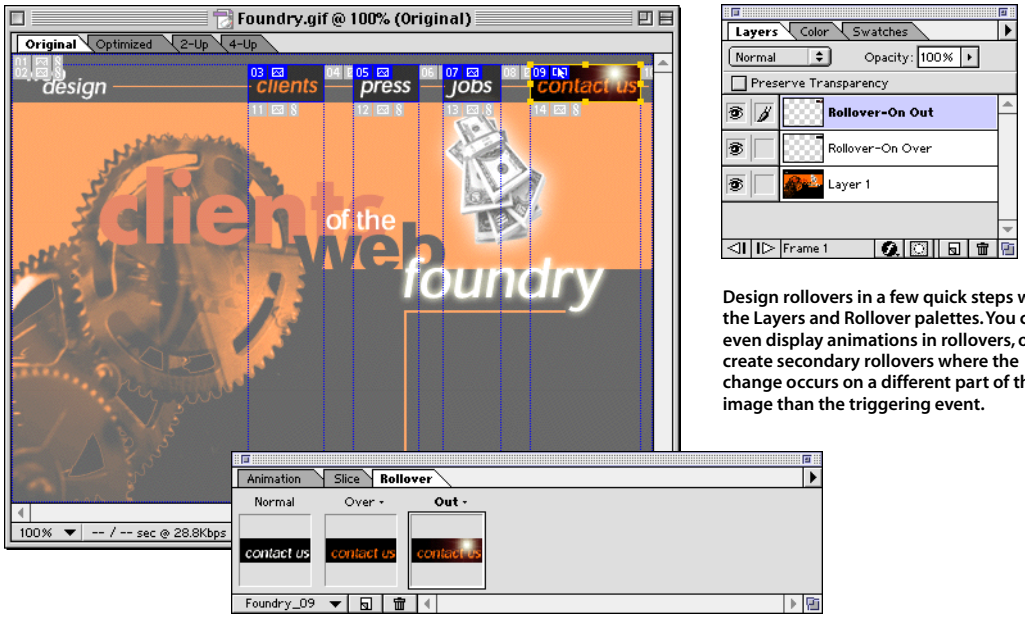
When you generate HTML files from ImageReady, the program embeds comments at the beginning and end of the file for easy detection later on. If you then copy the HTML table into a more complex HTML file, ImageReady can recognize its original code, and replace just that portion if you edit the original image. ImageReady even recognizes and replaces the correct code in HTML files containing several tables from different image files. You just choose the Update HTML command when you make your edits and let ImageReady handle the rest!

Powerful JavaScript rollover effects

ImageReady provides comprehensive support for JavaScript rollover effects, which have become the graphic technique of choice for adding interactivity to Web sites. ImageReady puts control over these effects into the hands of nonprogrammers by making it possible to generate complex effects without mastering JavaScript or writing a line of code. With these controls, you can rapidly explore your new interactivity ideas to achieve exactly the results you want. What's more, ImageReady supports a wide range of rollover effects. You can:

- Make an image change in a specific area—display a rollover effect—when you perform certain mouse actions, such as rolling the mouse over the area, holding the mouse down on the area, or clicking that area. For example, you could make a button flash to indicate to Web-site visitors that they can perform an action with this button.
- Create secondary rollovers just as easily. For example, you could set up a rollover where clicking buttons in one area causes different graphics to appear in another area of the graphic. You simply make changes anywhere in an image as you set up the rollover, and ImageReady detects the change and automatically generates the secondary rollover for you.
- Define rollovers by making changes in the Layers palette, such as changing a layer's visibility or adding layer effects.
- Display simple image swaps or complex animations for your rollover effect. You can even use animations in secondary rollovers.
- Define your own custom mouse actions in addition to Over, Click, and Down as triggers for rollover effects (this advanced technique involves adding your own JavaScript code to the HTML files).

To create a JavaScript rollover effect, you simply slice the image and use a combination of the Rollover, Layers, and Animation palettes to set up different rollover states. You can also take advantage of the easy roundtripping between ImageReady and Photoshop, using the powerful creativity features in Photoshop to create a distinctive range of rollover effects.



Design rollovers in a few quick steps with the Layers and Rollover palettes. You can even display animations in rollovers, or create secondary rollovers where the change occurs on a different part of the image than the triggering event.

When you save an optimized file that contains rollover effects, ImageReady writes JavaScript code in the HTML table cells for each affected image slice. It also saves each rollover image in a separate named file.

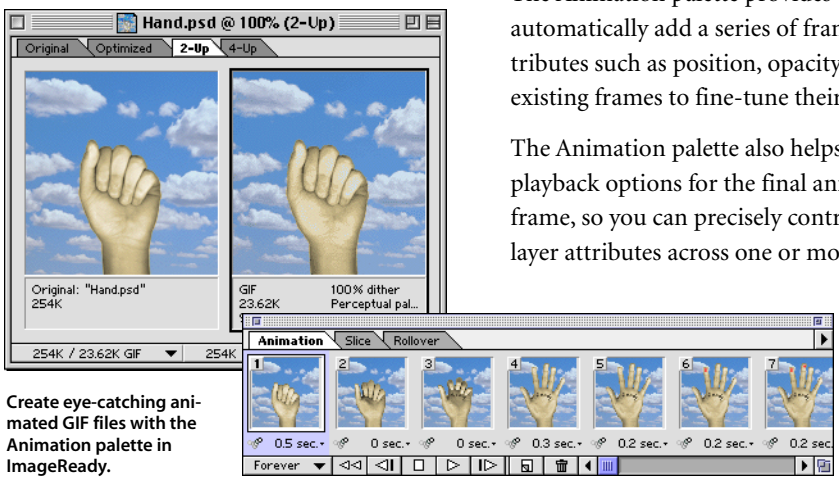
Enhanced animation controls

An animated GIF file is a sequence of frames that each vary slightly from the previous frame. When viewed in rapid succession, they give the illusion of movement. As with all Web graphics, the secret to using them effectively is to get the best animation quality you can in the smallest possible file size. ImageReady provides a distinctive combination of tools to help you do just that.

To create an animation in ImageReady, you first open one or more multi-layered files from Photoshop, Adobe Illustrator, or other sources. You then use the Animation palette to create new frames and make changes to the layers in each frame. Each layer is a separate object (or "cel" in traditional animation terms) in the animation. As with rollover states, changes you make to layers—hiding or showing them, moving them, applying opacity or special effects, and more—occur in each frame, while changes you make to actual pixels occur across all frames.

The Animation palette provides tween (short for "in-betweening") controls, so you can automatically add a series of frames between two existing frames while varying layer attributes such as position, opacity, or layer effects. You can even tween selected layers within existing frames to fine-tune their look.

The Animation palette also helps you preview your animation as you work on it and set playback options for the final animation. It gives you direct access to delay values for each frame, so you can precisely control when frames appears. The Layers palette lets you vary layer attributes across one or more frames in an animation to produce unique effects.



Create eye-catching animated GIF files with the Animation palette in ImageReady.

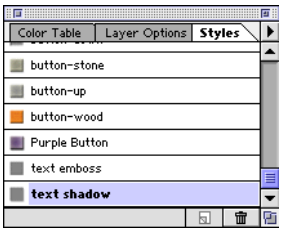
ImageReady can import frames from Apple QuickTime movies (or movies saved in formats that QuickTime supports). It provides advanced compression options for the animated GIF format, ensuring the smallest possible file sizes.

Layer effect styles

Photoshop 5.0 first introduced layer effects, which allow you to add drop shadows, bevels, inner and outer glows, and other effects to layers in one quick step. These effects remain live, so they update immediately when you edit the layer. ImageReady 2.0 incorporates full support for layer effects because they have proven so popular with Web designers. (They fit in nicely with a hectic Web production environment because they are easy and efficient to apply and edit, and they look attractive on-screen.)

You can apply layer effects in ImageReady by clicking the layer effects button at the bottom of the Layers palette, and then selecting a layer effects option from the popup menu. The layer effect then appears in the Layers palette as a nested layer under the layer you applied it to. You can vary its settings by selecting it in the Layers palette and adjusting options in the Layer Options palette. ImageReady even offers several new layer effects, including solid, pattern, and gradient fills.

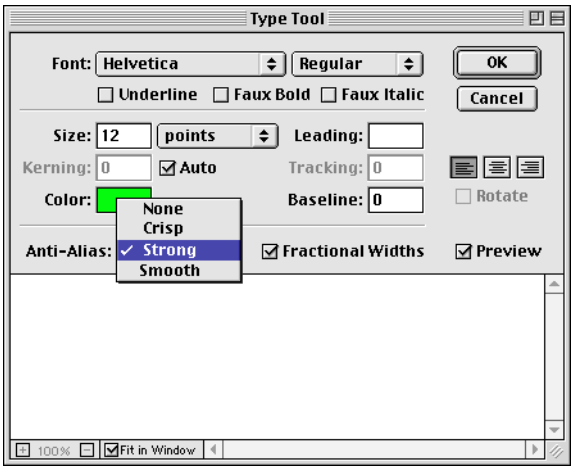
ImageReady streamlines layer effects even more by allowing you to save new combinations of layer effects as styles in the Styles palette for ongoing use. You could, for example, apply a drop shadow effect, tailor its options, and then save it as a style by simply dragging it from the Layers palette into the Styles palette. You could then apply your new style by dragging it to a layer in an image or to a layer in the Layers palette, or by double-clicking it to apply it to the currently selected layer.

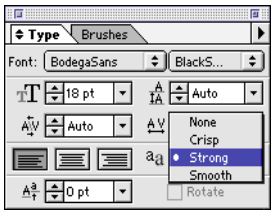


Create attractive buttons using the basic-shape tools and layer effects styles in ImageReady.

Flexible type options

Photoshop 5.5. and its ImageReady 2.0 component both include enhancements to their text capabilities. They offer multiple anti-aliasing controls to fine-tune the appearance of type, and they let you create and apply synthetic text styles, such as bold, italics, or underlining, for fonts that don't support these styles. ImageReady also allows you to type text directly on the image.





Fine-tune the appearance of type with the anti-aliasing controls in Photoshop and ImageReady.

Expand Your Creative Power

In addition to providing bold new Web support, Photoshop 5.5 continues to build on its long tradition of refining and extending its creative capabilities. This version delivers several new features that fulfill specific customer requests, including more intuitive masking tools, a new Art History brush, and automated tools for generating several types of print and Web-based contact sheets. This section introduces these powerful new creativity features.

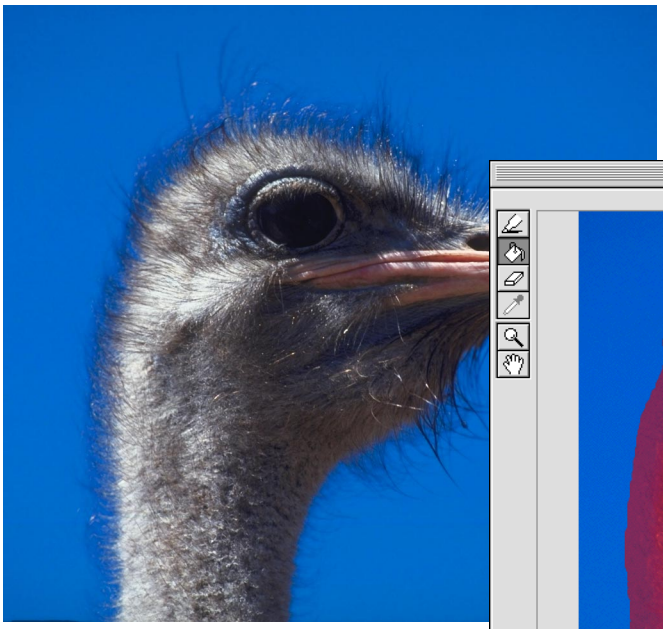
Powerful, Intuitive Masking Tools

Photoshop 5.5 delivers new masking tools that perform two different tasks: the magic eraser and background eraser tools both simplify masking, making it more intuitive and easy for new or intermittent Photoshop users to create simple transparencies in images. The new Extract Image command provides more advanced support, offering a centralized set of tools for masking foreground images with hard-to-define edges, such as hair glowing in sunlight. Together these new tools streamline your masking workflow, while offering you better results.

The magic eraser tool This tool erases sections of a layer—creating transparency—with a simple click of your mouse. You control whether it erases all pixels on a layer that are similar in value to the one you first clicked or only similar pixels that are contiguous to the one you first clicked. You can also set tolerance levels that define how close in value other pixels must be for the magic eraser to make them transparent.

The background eraser tool This tool works similarly to the magic eraser tool, except you make pixels transparent by dragging rather than clicking. As you drag the mouse across an image, the background eraser dynamically erases pixels. In addition, you control whether dragging with this tool erases all the pixels you drag over, only those that match the first pixel sampled, or only pixels that match the current background color. You also determine whether dragging erases contiguous or noncontiguous pixels that match your masking criteria. Other options let you control the tool's brush size (or the size of the swathe you create as you drag), as well as set the tolerance and the relative softness or hardness (haze) of the remaining object edges. In addition to erasing backgrounds, this tool "decontaminates" the edge pixels, effectively removing the tint of background color and making them partially transparent so you can cleanly composite them on another background.

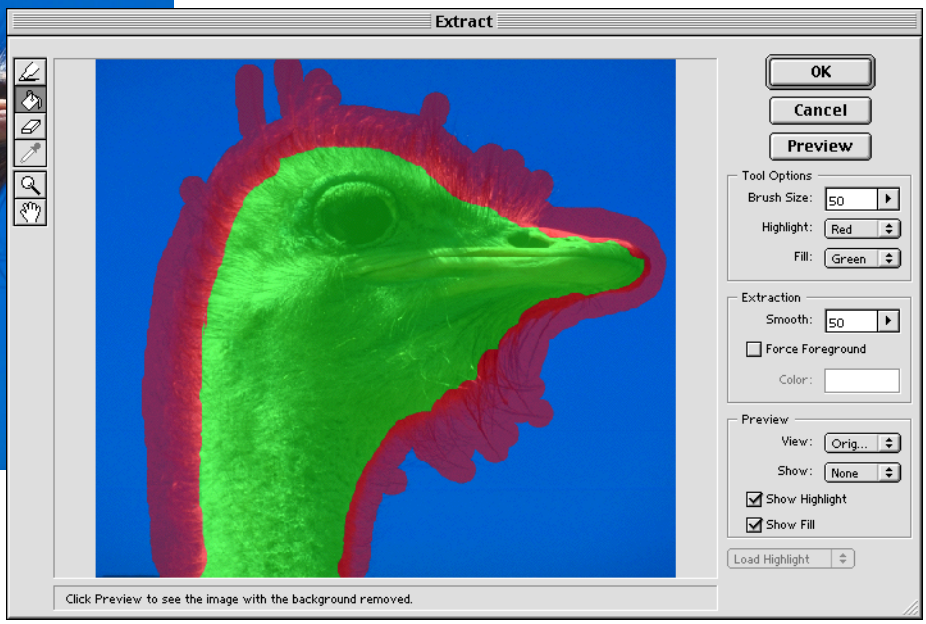
The Extract Image command Masking foreground images that have intricate, wispy, or hard-to-define edges usually involves painstaking manual work, and it can sometimes be close to impossible to accomplish. The new Extract Image command streamlines this process, giving you a straightforward way to clip difficult-to-mask objects from a background with minimal effort. To mask a foreground object, choose the Extract Image command from the Image menu. The Extract Image dialog box appears where you can highlight the object's edges, define its interior, and set other parameters for its extraction. You can preview and refine the results of this extraction as many times as necessary before performing the final action. When you're ready, Photoshop erases the background you've defined, creating transparent areas around the remaining foreground image. As with the background eraser, the Extract Image command decontaminates the remaining edge pixels, so you can place the extracted image against a different background with no haloing.



Original image with wispy, hard-to-define edges

Use the Extract Image command to accurately mask images with hard-to-define edges.

Image being extracted to protect wispy edges



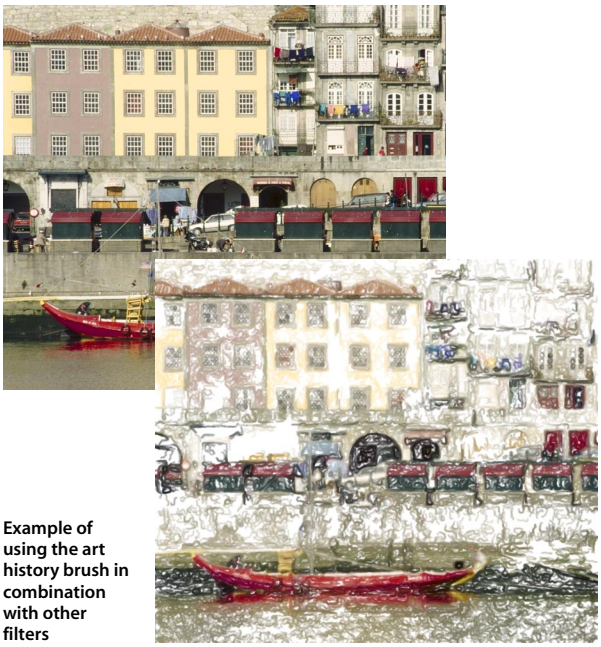
Art History Brush

The art history brush extends your creative possibilities by giving you tools that let you paint stylized strokes on an image, much as you would brush paint onto a canvas. You control size, fidelity, tolerance, and stroke style options for the brush, which all affect the results of this paint simulation. The art history brush bases its changes on a targeted history state or snapshot, using it as the source data for painting the image. You then simply move the art history brush around on the image, interactively creating realistic paint strokes. This dynamic new brush produces painterly effects easily without requiring you to specify colors or apply careful strokes.

Original image

Example of using the art history brush

Original image



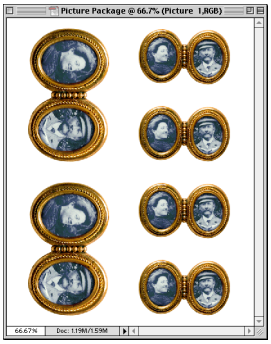
Example of using the art history brush in combination with other filters

Turn images into painterly artwork with the highly interactive art history brush.

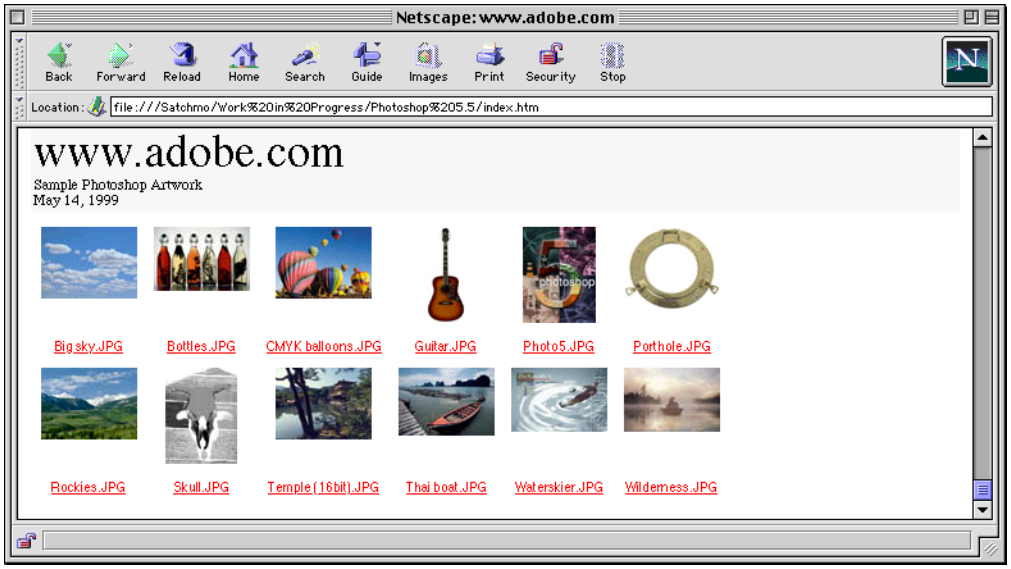
Selection of Instant Contact Sheets

Photoshop 5.5 automates the creation of contact sheets, saving you the time of creating them by hand. Several new automation plug-ins create:

- **Contact sheets from a folder of images** Photoshop produces contact sheets of all of the images in the folder to help you preview and catalog related groups of images. These contact sheets display a series of thumbnails on each page along with captions containing their original file names.
- **Picture packages of your images** Photoshop instantly produces picture packages, similar to the ones taken by traditional portrait studios, by arranging an image multiple times and even at multiple sizes on a single sheet. You determine the configuration of image sizes from a preset list in Photoshop. For example, you could create a sheet with two 4x5 and four 2.5x3.5-inch versions of a portrait.
- **Web galleries of your images** Photoshop automatically exports Web pages with thumbnails of your images on an index page, as well as individual image pages and navigable links between them. This feature provides a quick and easy way for you to display your photographic work for potential clients to browse online, or to display project images for clients to review.



Produce picture packages instantly with any image. Photoshop includes a wide selection of different image size combinations.



Create Web galleries of your photographic images to promote your work or help your clients select images for specific projects.

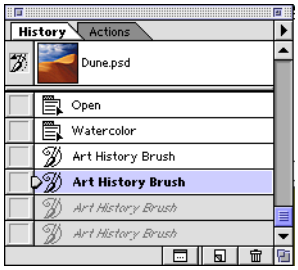
Together these new automation features streamline how you catalog, present, and share images with colleagues and clients alike.

Longtime Photoshop and ImageReady Strengths Worth Noting

Photoshop 5.5 and its ImageReady 2.0 component build on the significant features introduced in Photoshop 5.0 and ImageReady 1.0. Here are just a few of the powerful features you don't want to miss.

Photoshop 5.0 introduced:

- The History palette for quickly undoing and redoing multiple steps, and for tracking different image states for other uses.
- Layer effects for instantly adding drop shadows, inner and outer glows, bevels, and other effects to layers. These effects remain live, updating instantly when you edit the layer.
- Spot color support so you can add spot-color channels to images in a few quick steps.
- ICC-compliant color management support for achieving consistent, predictable color results across your print-production workflow.
- Editable text layers with character-level formatting for streamlining the process of adding and editing text in images.



History palette in Photoshop 5.x

System Requirements*

Power Macintosh

- PowerPC® processor or better
- Mac OS Software version 7.6 or later
- Combined Installation of Photoshop and ImageReady:
  —64 MB of RAM†
  —125 MB of available hard-disk space for full installation (large-capacity hard disk recommended for on-going work)
- Photoshop Only Installation:
  —32 MB of RAM (64 MB or more recommended)
  —80 MB of available hard-disk space
- 256-color (8-bit) display adapter required (24-bit, high-resolution display recommended)
- Sound card recommended for viewing interactive tutorial files
- CD-ROM drive

Windows

- Intel® Pentium® or faster processor
- Microsoft Windows 95, Windows 98, Windows NT 4.0, or later operating system
- Combined Installation of Photoshop and ImageReady:
  —64 MB of RAM†
  —125 MB of available hard-disk space for full installation (large-capacity hard disk recommended for on-going work)
- Photoshop Only Installation:
  —32 MB of RAM (64 MB or more recommended)
  —80 MB of available hard-disk space
- 256-color (8-bit) display adapter required (24-bit, high-resolution display recommended)
- Sound card recommended for viewing interactive tutorial files
- CD-ROM drive

* System requirements are subject to change prior to the product shipping.

† 96 MB of RAM recommended for best performance when using Photoshop and ImageReady concurrently

In addition to its Web optimization and animation features, ImageReady 1.0 introduced:

- Batch-compression of Web graphics using special icons, called droplets, which batch-process any files dragged on top of them. You can create simple droplets using combinations of optimization settings on the Optimize palette, or complex, multi-step droplets from actions saved in the Actions palette.
- An Actions palette that works identically to the one first introduced by Photoshop 4.0 and which automates routine production tasks, such as applying a color palette consistently to different images.

Extra Value CD-ROMs

Adobe Systems supplements the exceptional value in Adobe Photoshop 5.5 by including multimedia tutorials, expert tips, sample files, electronic documentation, and other bonus content on its product CDs. The Adobe Photoshop 5.5 software package includes:

- Adobe Photoshop 5.5 application CD-ROM with:
  —The Adobe ImageReady 2.0 component for advanced Web graphics production tasks
  —Adobe Acrobat Reader 4.0 software for viewing Portable Document Format (PDF) files
  —Tryout versions of other Adobe software
  —A variety of sample plug-ins from third-party developers
- Adobe Photoshop 5.0 Tour and Training CD-ROM updated to include information about Photoshop 5.5 features, as well as multimedia tours of key features in Photoshop 5.0, a selection of step-by-step tutorials, and a Digital Art Show of work from accomplished Photoshop professionals
- *Adobe Photoshop 5.0 User Guide* and *Adobe Photoshop 5.5 User Guide Supplement*
- Adobe Photoshop 5.5 quick reference card

Availability and Pricing

In the United States and Canada, Adobe Photoshop 5.5 software for the Power Macintosh, Windows 95 & 98, and Windows NT 4.0 is expected to ship in the third quarter of 1999. The estimated street price for Photoshop 5.5 is $610 (U.S.) for all platforms. Registered users of Photoshop 5.0 and later and ImageReady 1.0 can upgrade to version 5.5 for only $129 (U.S.). Registered users of earlier versions of Photoshop can upgrade to version 5.5 for $199 (U.S.). This upgrade pricing does not apply to Limited Edition versions. All retail and upgrade versions are available only on CD-ROM.

French, German, and Japanese versions are expected to be available within 45 days of the U.S./Canadian version. Information on other language versions, as well as all pricing, upgrade, and support policies for other countries, will be announced separately.

Customers can call Adobe Systems at 800-492-3623 or visit the Adobe Web site at *www.adobe.com* for more information.

About Adobe Systems

Adobe Systems Incorporated, the award-winning provider of graphics and publishing solutions, gives you the power to make your ideas stand out exactly as you intend. Whether you work in a design studio, an office, or at home, Adobe's software, images, type, and printing technologies offer you a seamless workflow for creating and distributing graphically rich communications in print and electronic media.

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